EXHIBIT Q

HIGHLY CONFIDENTIAL SUBJECT TO STIPULATION AND ORDER OF CONFIDENTIALITY

020626

ETHICON, INC.

OCT 0 1 2002

R&D - CENTRAL FILE

Medical Director:

Appendix I CONCEPT DEVICE DESIGN SAI	Appendix I CONCEPT DEVICE DESIGN SAFETY ASSESSMENT (DDSA) APPROVAL PAGE
DESIGN SAFETY ASSESSMENT	REVISION: 1
· · · · · · · · · · · · · · · · · · ·	REVISION DATE: 6/6/02
Product Name:	GYNEMESH * PROLENE Soft Mesh
Product Code:	GPSL
RMC	N/A N/A
Project Leader:	Maggie D'Aversa Lange 1 1 1 02
ANALYSIS TEAM	ASSOCIATE NAME
Development Engineer/Scientist:	Elbert Katrin C
Manufacturing/Technical Services	Irene Lee
Engineer:	Maritza Molina
Quality Assurance Engineer:	Enilma Miller
Regulatory Affairs:	Sean O'Bryan
Other:	Richard Isenberg
	Paul Parisi Jaul foul 7-31-02
	Cyrus Guidry (12 7.31.02
DISPOSITION/APPROVAL:	
To the Manney of	I deem this analysis to be true and a complete reflection of
	facts as known at the time of this analysis. I find this device
Development Engineer/Scientist	design to be safe for use: (Check one:):Yes;:No.
Man 2	I deem this analysis to be true and a complete reflection of
Trene Lee/ Maritza Molina	facts as known at the time of this analysis. I find this device
Manufacturing Engineer	design to be safe for use: (Check one:) :Yes; :No.
	I deem this analysis to be true and a complete reflection of
Enilma Miller	facts as known at the time of this analysis. I find this device
Quality Assurance Engineer	design to be safe for use: (Check one:) /: Yes; No.
Shew D. O'llung	I deem this analysis to be true and a complete reflection of
'an	facts as known at the time of this analysis. I find this device
Regulatory Affairs	design to be safe for use: (Check one:) <a>.Yes ; No.

OF550-010 CP1998SEF001

OP050-010 CP1998SEF001 Appendix II

DEVICE DESIGN SAFETY ASSESSMENT (DDSA) SUMMARY REPORT (Revision 1

PROLENE* monofilament fiber. The product is used for tissue reinforcement and long -lasting of the pelvic floor in vaginal wall prolapse where surgical treatment is intended, either as mechanical support or bridging material for the fascial defect. **DEVICE**: (Provide a description of the overall device system) A non-absorbable polypropylene mesh, manufactured out

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This risk assessment was completed on (*check one*): X Device

This DDSA is applicable to the GYNEMESH* PROLENE Soft mesh product and will identify any hazards associated

Subsystem Component

with this new product offering.

Define the intended use of the reviewed item:

GYNEMESHTM PROLENE Soft Mesh is used for tissue reinforcement and long -lasting stabilization of fascial structures of the pelvic floor in vaginal wall prolapse where surgical treatment is intended, either as mechanical support or bridging material for the fascial defect.

Briefly, describe the revision to the device or sub-system that preceded a revision to the DDSA:

Initial version of DDSA.

Revision 1 Final DDSA document

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OP650-0rd CP1998SEF00

ACTIVITY	YES/NO/NA	FILE	COMMENT
\dashv		REFERENCE	
All qualitative and quantitative characteristics that could affect safety have been listed including their defined limits.	YES	D&D Plan & Material	
The intended use of the device is clearly defined, including:	YES	Re: GYNEMESH	Service of the servic
Indications/Contraindications and intended use		Product Insert	
The intended user, his required skill and training			
Interaction of device with the patient as user:			
The operational, transport, cleaning and storage environments have been			
ent product has been considered from both the positive	YES	Re: Clinical and	Raw Materials and
and negative perspective.		Scientific reports	Indications for device
Clinical/Scientific reports, both internal and published:			similar to the Soft
Device failure reports:			PROLENE mesh
The contact conditions and timing with the patient have been considered.	YES.	Re: Clinical and	Raw Materials and
		Scientific reports	Indications for device
			similar to the Soft
			PROLENE mesh
Materials and components used for fabrication and manufacture have been	YES	Ref: Soft	Raw materials are
considered.		PROLENE Mesh	chemically unchanged -
Chemical nature, quantitative formulation, additives, processing aids,		Biocompatibility	The Soft PROLENE
monomers, catalysts, residues:		Strategy	Resins utilized in clear
Concentration, availability, toxicity: Biodegradation aging and correction:			and blue pigmented
Previous use of this material, and long term effectiveness in equivalent			sutures have been utilized
application can be demonstrated:			in the fabrication of this
Appropriate biocompatability testing to EN 30993:			mesh.
	YES	Product Insert –	Raw materials are
possible and sterilization method, device storage, shelf-life, and disposal have	•	Warnings section	chemically unchanged
been considered.		ૹ	Soft PROLENE Resin
		1) Sterilization 2)	Do not re-sterilizer this
		Storage Stability	product
The state of the s		Strategy	

ACTIVITY	YES/NO/NA	FILE	COMMENT
		REFERENCE	
The accuracy and precision of measurement parameters executed by the device and their interpretation has been considered	N/A	N/A	
The need for routine maintenance or calibration of the device, and the method of	N/A	N/A	
provision has been considered.		1	
Interactions with other devices or drugs, and any potential problems have been	YES	N/A	Raw material is chemically
considered.			unchanged.
Delayed or long term use of the device, ergonomic and accumulative effects	YES	N/A	
have been considered		-	
A Device Specification exists.	YES	N/A	
A PBOM has been defined.	YES	N/A	
A requirement or finished goods specification is available.	YES	N/A	
Manufacturing and Material specifications are available.	YES	N/A	
Surgical technique, labels, warnings and other instructions for use (cleaning, sterilization, use, maintenance, and disposal) are available.	YES	Product Insert	See package Insert
Device marketing brochures, or other sales literature, have been considered.	YES	Indications&Clai	Sales Literature
		ms Defined	



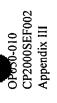
			RESPONSE	ONSE	
CHARACTERISTIC		ISSUE	N/A	YES	COMMENT
Intended Use	(1	Is special training of the intended user needed?	X		If yes, please attach training plan
	2	Does use of the device impose any ergonomic factors or effects?	×		If yes, please attach plan.
	3)	Are there any environmental factors that could influence safety/function of the device?	×		If yes, please define the limits.
	(4)	Can the patient control or influence the use of the device?	×	:	If yes, please define the training plan for the user.
	5)	Is device safety/functionality compromised based upon the patient (such as elderly, diabetic, handicapped, or other)?	×		If yes, please define the nature of the compromise and the limits.
Patient Contact	9	Does device use utilize surface contact to the patient?		×	Permanent prosthetic implant.
	7	7) Does device use utilize invasive contact with the patient?		×	Permanent prosthetic implant.
	<u>∞</u>	8) Does device use require implantation?		×	Permanent prosthetic implant.
Materials	(6	Define the materials utilized in the construction of the device. Highlight those materials that will involve direct patient contact		×	Prolene - Polypropylene (blue pigmented and clear). The processes utilized in the manufacture of the material are unchanged relative to soft PROLENE mesh.
	10	10) Have the materials been tested for toxicity and biocompatability?		×	Ref: DHF of Soft PROLENE - Biocompatibility section from T. Barbolt.
	[]	11) Have the materials been tested for carcinogenicity, teratology, and mutagenicity (as appropriate)?		×	Ref: DHF Soft PROLENE Mesh
	12)	12) Is the strength of load-bearing materials sufficient for the intended use?		×	Ref.: Clinical Literature search

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		RESPONSE	ONSE	
CHARACTERISTIC	ISSUE	N/A	YES	COMMENT
4 Energy	13) Is energy delivered to and/or extracted from the patient?	X		If no, proceed to the next section.
	14) Describe the type of energy transferred.	100		
	15) Is the energy output is controlled, in terms of quality, quantity, and time-function			
5 Substances	16) Are substances delivered to and/or extracted from the patient?	×		
	17) Is the device absorbable?	×		If yes, please attach a
				of all by-pr
				produced during the devices in-situ degradation
	18) If the device is absorbable, have all of the materials identified	×		If yes, please identify the
	above been tested for biocompatability at the appropriate			location of appropriate
	19) Is the transfer rate (delivery/extraction) of substances	×		res, please des
	controlled?			the transfer rate is
				controlled.
	20) What is the maximum/minimum substance transfer rate?			
6 Biological Materials	21) Are biological materials processed by the device for	X		If not, proceed to the next
	subsequent re-use?		-	section.
	22) Is the device disposable?	*5	***	
	23) Are those components contacting biological materials cleanable and sterilizable?			
	24) Are those components contacting biological materials compatible?		7	
7 Sterility - Supplied Sterile	7 Sterility - Supplied Sterile 25) Is the device supplied sterile?		×	If not, please proceed to the next section.
	26) Identify the method of sterilization			Ethylene Oxide - Cycle "J". DHF: Soft PROLENE Mesh
				TATOTA

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		RESP	RESPONSE	
CHARACTERISTIC	ISSUE	N/A	YES	COMMENT
	27) Is the sterilization method compatible with the materials?		×	No change to existing Material.
•	28) Are the materials stable after sterilization?		×	No change to existing materials.
	29) Is the device design sterilizable?		×	No change to existing materials.
	30) Is the package designed to provide for sterilization of the device?		×	Packaging is Tyvek Copolymer with paper folder.
	31) Has the shelf life of the system been determined?		×	No change to existing materials - DHF: Soft PROLENE Storage Stability
	32) Is the device re-usable?	×		If not, please proceed to the next section.
	33) Are there limitations to the number of re-use cycles?			
	34) Are there restrictions to sterilization methods utilized by the user of the device?	Ü	ř	
8 Sterility - Supplied Non-Sterile	35) Is the device to be disinfected by the user?	×		If not, please proceed to the next section.
	36) Is the method of disinfected and cycle parameters defined?			
	37) Is the packaging of the product during sterilization specified?		,	
	38) Does sterilization validation data exist for the recommended sterilization cycle?	-44		
	39) Were other methods of sterilization examined?	j		
8 Sterility - Supplied Non-Sterile	40) Has the shelf life of the system been determined?	×		If yes, please specify location of reports.



		RESP	RESPONSE	
CHARACTERISTIC	ISSUE	N/A	YES	COMMENT
9 Environment	41) Is the device intended to modify the patient environment?	×		If not, please proceed to the next section.
	42) What is the effect of temperature on the system performance?			
	43) What is the effect of humidity on the system performance?			Ø
	44) What is the effect of atmospheric gas concentration on system performance?	i a	M	
	45) What is the effect of pressure on system performance?			
10 Measurements	46) Does the device make measurements?	×		If not, please proceed to the next section.
	47) Is there interference of the desired parameter with other possible measurements?			
	48) Is the accuracy of the measurement known at point of use?			
	49) Is the precision of the measurement known?			
11 Interpretive	50) Are conclusions presented by the device based upon	X		olea
	measurements, input, or acquired data?			location of software validation reports.
12 Interactions	51) Is the device intended to control or interact with other devices or drugs?	×		If not, please proceed to the next section
	52) If the device is used with other devices or drugs, is there a potential interaction?			
	53) Does the interaction render any safety or functional changes to the device?			
	54) Does the interaction render any safety or functional changes to the other device?		ij	
13 Extraneous Unwanted Energy or Substances	55) Are there any unwanted outputs of energy or substances?	×		If not, please proceed to the next section

		RESPONSE	
CHARACTERISTIC	ISSUE	N/A YES	COMMENT
	56) Does noise affect the device output?		
	57) Does vibration affect the device output?		
	58) Does heat affect the device output?		Rhoper Co.
	59) Does ionizing radiation affect the device output?		
	60) Does non-ionizing radiation affect the device output?	and the second s	
	61) Does UV/visible/IR radiation affect the device output?		
	62) Do leakage currents affect the device output?		
	63) Do electric/magnetic fields affect the device output?		
	64) Do contact temperatures affect the device output?		
	65) Does discharge of chemicals affect the device output?		
	66) Does discharge of waste products affect the device output?		
	67) Does discharge of body fluids affect the device's output?	- 1	THE PARTY OF THE P
14 Environmental Influences	68) Is the device susceptible to environmental influences?	×	If not, please proceed to the next section.
	69) Do shipping temperatures affect device safety or functionality?		
	70) Does storage temperatures, humidity, or light affect device safety or functionality?		
	71) Does spillage on the device affect safety or functionality?		
	72) Do fluctuations in the power affect the device output or safety?		
	73) Does variation in the operating temperature, humidity, or light affect the device output or safety?		
	74) Does variation in the operating humidity affect the device output of safety?		
15 Accessories	75) Are there essential consumables or accessories associated with the device?	X	If yes, please state the limits.
16 Preventative Maintenance	76) Is preventative maintenance necessary?	×	If not, please proceed to the next section

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If not, please proceed to the next section If not, please proceed to the Storage Stability Committee existing materials - DHF: 5 years - No change COMMENT next section YES RESPONSE N/A × × × × ADD ADDITIONAL CHARACTERISTICS, AS NEEDED 85) Are there means to prevent the operator from modifying the 78) Is a specialist needed to perform preventative maintenance? 77) Can the operator perform preventative maintenance? 87) Does the package contain an indicator for stability? 88) Are there any delayed or long-term user effects? 81) Is an external calibration of the device needed? 86) Does the device have a restricted shelf life? 84) Can the operator access the software code? 80) Can the operator calibrate the device? 82) Is the calibration frequency defined? 83) Does the device contain software? ISSUE 79) Is calibration necessary? code? CHARACTERISTIC 20 Long-term Effects 17 Calibration 19 Shelf-life 18 Software

Т		COMMENT		
KSHEE	RESPONSE	N/A YES		
WOR	RESP	N/A		
QUALITATIVE & QUANTITATIVE CHARACTERISTICS WORKSHEET 11		ISSUE		
		CHARACTERISTIC		

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12 USE RELATED HAZARDS

Place an "X" in the box appropriate for the device being evaluated.	RESPONSE		ACTION
ISSUE	NO	YES	
1) Have safety or efficacy issues occurred in the use of predicate, or other similar, devices?	X		
2) Could the user incorrectly setup the device that may potentially result in a safety or efficacy event?	Х		
3) Identify the critical steps in setting up and operating the device. Can these functions be performed adequately by all of the intended users?		Х	See note *
4) Does this device replace an existing device for the same medical procedure or indication for use?			If yes, continue to #5; if no, continue to #7
5) Does the device visually resemble the existing device?			If yes, continue to #6; if no, continue to #7
6) Will the device operate as intended if it is operated in the manner utilized for the existing device?			If yes, continue to #7; if no, explain ramifications.
7) Is the user likely to use the device in a manner other than that described in the Instructions for Use?	X		If yes, explain ramifications
8) Is special training needed for the safe and effective use of the device?	X		If yes, provide plan for accomplishing this training
9) If storage and maintenance requirements are not followed, could use of the device result in an unsafe or ineffective use?	Х		If yes, provide plan to mitigate the event.
10) Is safe and effective use of the device complex? Under high stress conditions, could the user become confused such that the device results in an unsafe condition?	X		If yes, provide plan to mitigate the event
11) Are the auditory and visual alarms appropriate for all users and use environments?	X		Device is an implant and does not have alarms.
12) If necessary device accessories are expired, damaged, missing, or different from those recommended, could use of the device result in an unsafe or ineffective treatment?	X		No accessories required for use.
13) Is safe operation of the device resistant to "typical" handling?		X	If no, provide plan to mitigate the event
14) Could device safety be affected if power is lost or disconnected (inadvertently or purposefully); if its battery is damaged, missing or dead?	X		N/A
15) Is the status of the device's connection to the patient apparent where necessary?			Device is an implant and does not connect to the patient for

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13 USE RELATED HAZARDS

Place an "X" in the box appropriate for the device being evaluated.	RESPONSE		ACTION	
ISSUE	NO	YES		
			feedback/monitoring	

^{*}The surgeon will apply it in the appropriate area by means of sutures, staples, or other appropriate surgical means.

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CONTROL PLAN

REFERENCES Literature search Literature search Literature search Ref.: Clinical Ref.: Clinical Ref.: Clinical Clinical follow up design will assess COMMENT will assess this Clinical study Clinical study this parameter Clinical study Clinical study Clinical study Clinical study this parameter this parameter this parameter this parameter this parameter parameter CLASS FAULT ပ ပ O C C C Σ C S RISK LEVEL \equiv \equiv PROBABILITY HAZARD 2 a SEVERITY HARM Loss of Mechanical Integrity – Intraoperative implantation(interference Integrity - postoperative with instrument used Tear during material Tear after implanted Loss of Mechanical HAZARD during procedure) Suture Pull out Sharp edges Tear during handling Erosion Fraying NUMBER LINE 9